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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on C**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on proce used to obtain a better understanding of the execution of the application. The visualization tool we developed at the University of Waterloo. However, these diagrams are often very complex and do desired overview of the application. In our experience, such tools display repeated occurrences of

2 [Distributed operating systems](#)

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: [pdf\(5.49 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Distributed operating systems have many aspects in common with centralized ones, but they also paper is intended as an introduction to distributed operating systems, and especially to current un After a discussion of what constitutes a distributed operating system and how it is distinguished fr various key design issues are discussed. Then several examples of current research projects are e

3 [Third Generation Computer Systems](#)

Peter J. Denning

December 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 4

Full text available: [pdf\(3.52 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

The common features of third generation operating systems are surveyed from a general view, wil abstractions that constitute at least the basis for a "theory" of operating systems. Properties of sp discussed except where examples are useful. The technical aspects of issues and concepts are stre mentioned only briefly. A perfunctory knowledge of third generation systems is presumed.

4 [Multidatabase systems: Overview of multidatabase transaction management](#)

Yuri Breitbart, Hector Garcia-Molina, Avi Silberschatz

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on C Volume 2**

Full text available: [pdf\(3.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

A multidatabase system (MDBS) is a facility that allows users access to data located in multiple au management systems (DBMSs). In such a system, *global transactions* are executed under the con Independently, *local transactions* are executed under the control of the local DBMSs. Each local DB may employ a different transaction management scheme. In addition, each local DBMS has compl transactions (global a ...


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5 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume

Full text available:  pdf(1.95 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)


Since the early days of logic programming, researchers in the field realized the potential for exploiting the execution of logic programs. Their high-level nature, the presence of nondeterminism, and the among other characteristics, make logic programs interesting candidates for obtaining speedups. At the same time, the fact that the typical applications of logic programming frequently involve irregu

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, pr

6 Experience Using Multiprocessor Systems—A Status Report

Anita K. Jones, Peter Schwarz

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Full text available:  pdf(4.48 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Using metalevel techniques in a flexible toolkit for CSCW applications

Paul Dourish

June 1998

ACM Transactions on Computer-Human Interaction (TOCHI), Volume 5 Issue 2

Full text available:  pdf(292.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

Ideally, software toolkits for collaborative applications should provide generic, reusable components of circumstances, which software developers can assemble to produce new applications. However, applications and the mechanics of group interaction present a problem. Group interactions are significant structure of the underlying infrastructure, below the level at which toolkits typically offer control. 1



Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel implementation, software architecture

8 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available:


 pdf(6.15 MB)  [Publisher Site](#)

Additional Information: [full citation](#)

9 The impact of information systems on organizations and markets

Vijay Gurbaxani, Seungjin Whang

January 1991 **Communications of the ACM**, Volume 34 Issue 1

Full text available:  pdf(3.70 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [in](#)

The adoption of information technology (IT) in organizations has been growing at a rapid pace. It has evolved from the automation of structured processes to systems that are truly revolutionary in the fundamental business procedures. Indeed, it is believed that "More than being helped by computers, shaping strategy and structure to fit new information technology [25]." While the importance

10 WYLBUR: an interactive text editing and remote job entry system

Roger Fajman, John Borgelt

May 1973 **Communications of the ACM**, Volume 16 Issue 5

Full text available:  pdf(1.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

WYLBUR is a comprehensive system for manipulating all kinds of text, such as computer programs using typewriter terminals connected to a computer. It has facilities for remote job entry and retrieval, text alignment and justification. A powerful method for addressing text by content is provided. Thi


appearance of WYLBUR as well as its internal structure. A short description of the major features c

Keywords: content addressing, data entry, document preparation, interactive terminal, interactiv editing, program preparation, remote job entry, remote job retrieval, remote terminal, terminal, ti time-sharing

11 A compiler-directed distributed shared memory system

Tzi-cker Chiueh, Manish Verma


July 1995 **Proceedings of the 9th international conference on Supercomputing**

Full text available:  pdf(1.22 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

12 Wireless home networks: Design and implementation of the HiperLan/2 protocol

E. P. Vasilakopoulou, G. E. Karastergios, G. D. Papadopoulos

April 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue

Full text available:  pdf(1.50 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

In recent years, wireless communication systems have experienced an enormous development, le various wireless networks standards. These standards are characterized by different properties, su rates, mobility and QoS support. Among them the HiperLan/2 standard is distinguished of its perfe provision of high-speed integrated services. Its centralized Medium Access Control protocol though complex funct ...

13 Architectures: A perspective on the future of massively parallel computing: fine-grain vs. coa comparison & contrast

Predrag T. Tomic

April 2004 **Proceedings of the first conference on computing frontiers on Computing fron**

Full text available:  pdf(277.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)


Models, architectures and languages for *parallel computation* have been of utmost research intere: engineering for several decades. A great variety of parallel computation models has been propose: parallel and distributed architectures designed as some possible ways of harnessing parallelism an the general purpose computers. *Massively parallel connectionist models* such as *artificial neural nei*

Keywords: cellular automata, distributed systems, massively parallel computing, multiprocessor i parallel computation models

14 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Full text available:  pdf(5.73 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

15 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3


Full text available:  pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citings](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as we itself. The visible difference from other technologies is in the use of a pen or pencil as the primary a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows will be analyzed and put into context with other emerging technologies and visions. Starting with a

16 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4


Full text available:  [pdf\(5.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers resources by using a common file system. A typical configuration for a DFS is a collection of works connected by a local area network (LAN). A DFS is implemented as part of the operating system of computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralized control ...

17 Launching the new era


Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Eiichi
March 1993 **Communications of the ACM**, Volume 36 Issue 3

Full text available:  [pdf\(3.45 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

18 Programmable applications: interpreter meets interface

Michael Eisenberg
April 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 2


Full text available:  [pdf\(4.42 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Current fashion in "user-friendly" software design tends to place an over-reliance on direct manipulation (and thus truly user-friendly), applications need both learnable interfaces and domain-independent interfaces accessible to the user. This paper discusses some of the design issues that arise in the creation of applications. As an example, we present "SchemePaint," a graphics application that combines a Macintosh-style graphical user interface with a Scheme-based application logic.

19 CMIFed: a transportable hypermedia authoring system


Lynda Hardman, Guido van Rossum, Jack Jansen, Sjoerd Mullender
October 1994 **Proceedings of the second ACM international conference on Multimedia**

Full text available:  [pdf\(1.93 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 A coherent distributed file cache with directory write-behind

Timothy Mann, Andrew Birrell, Andy Higney, Charles Jerian, Garret Swart
May 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 2

Full text available:  [pdf\(3.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Extensive caching is a key feature of the Echo distributed file system. Echo client machines maintain directory data and properties, with write-behind (delayed write-back) of all cached information. Echo enforces constraints on this write-behind, enabling applications to store and maintain consistent data structures when crashes or network faults prevent some writes from being completed. In this paper we describe the design and implementation of the Echo distributed file system.

Keywords: coherence, file caching, write-behind

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